

SUPPLEMENTAL
Notice of Allowability

Application No.

09/851,885

Examiner

Vincent E. Kovalick

Applicant(s)

KUBOTA ET AL.

Art Unit

2673

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to applicant's amendment to Final Action dated 5/10/05.
2. ☒ The allowed claim(s) is/are 1-81, 88-90 and 118-133.
3. ☒ The drawings filed on 09 May 2001 are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☒ All b) ☐ Some* c) ☐ None of the:
 1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input checked="" type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____. |
| 3. <input checked="" type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date <u>4/19/04</u> & <u>9/1/04</u> | 7. <input type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____. |

**SUPPLEMENTAL
DETAILED ACTION**

Response to Amendment

1. This Office Action is in response to Applicant's Amendment dated May 10, 2005, in response to a phone interview regarding claim numbering with Applicant's Attorney, Mr. William J. Daley, Jr. Reg. No. 35,487. on May 10, 2005.

EXAMINER'S AMENDMENT

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

3. Authorization for this examiner's amendment was given in a telephone interview with Applicant's Attorney, Mr. William J. Daley, Jr. Reg. No. 35,487 on May 10, 2005.

Please modify the following claims:

- In claim 2, line 1; following the words "defined in" delete the words "claims 1 or 122, wherein:" and insert the words ---claim 1, wherein:--- In claim 2, line 1;
- In claim 3, line 1; following the words "defined in" delete the words "claims 1 or 122, wherein:" and insert the words ---claim 1, wherein:---
- In claim 4, line 1; following the words "defined in" delete the words "claims 1 or 122, wherein:" and insert the words ---claim 1, wherein:---

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- In claim 5, line 1; following the words “defined in” delete the words “claims 1 or 122, wherein.” and insert the words ---claim 1, wherein:---
- In claim 6, line 1; following the words “defined in” delete the words “claims 1 or 122, wherein.” and insert the words ---claim 1, wherein:---
- In claim 11, line 1; following the words “defined in” delete the words “claims 1 or 122, wherein.” and insert the words ---claim 1, wherein:---
- In claim 12, line 1; following the words “defined in” delete the words “claims 1 or 122, wherein.” and insert the words ---claim 1, wherein:---
- In claim 13, line 1; following the words “defined in” delete the words “claims 1 or 122, wherein.” and insert the words ---claim 1, wherein:---

Please add the following new claims 126-133:

126. (New) The image display device as defined in claim 122, wherein:
only one of the parts and entireties of the drive circuit(s) operates at any given time.
127. (New) The image display device as defined in claim 122, wherein:
the same part(s) and entirety(ies) of the drive circuit(s) is(are) driven throughout one or more frame periods
128. (New) The image display device as defined in claim 122, wherein:
two or more of the parts and entireties of the drive circuit(s) are switchable driven in one frame period.
129. (New) The image display device as defined in claim 122, wherein:
at least two of the parts and entireties of the drive circuit(s) write image data in respective areas on a screen.

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130. (New) The image display device as defined in claim 122, wherein:
a part or entirety of the data signal line drive circuit is provided in plurality; and
at least two of the parts and entireties of the data signal line drive circuit write image data
in one partial or whole area on a screen in one frame period.

131. (New) The image display device as defined in claim 122, wherein:
a part or entirety of the data signal line drive circuit is provided in plurality; and
at least one of the parts and entireties of the data signal line drive circuit writes image
data in a blanking period of each horizontal scan period.

132. (New) The image display device as defined in claim 122, wherein:
a part or entirety of the data signal line drive circuit is provided in plurality; and
at least one of the parts and entireties of the data signal line drive circuit writes image
data with a predetermined delay from another part or entirety of the data signal line drive
circuit.

133. (New) The image display device as defined in claim 122, wherein:
the parts and entireties of the drive circuit(s) are located opposing one another across the
pixel array.

Allowable Subject Matter

4. Claims 1-81, 88-90 and 118-133 are allowed.

5. The following is an examiner's statement of reasons for allowance:

Relative to claims 1, 122 and 123, the major difference between the teachings of the prior art of
record (USP 5,973,661, Kobayashi et al. and USP 5,638,501, USP 5,638,501) and that of the

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instant invention is that said prior art of record **does not teach** an image display device wherein a part or entirety of either or both of the data signal line drive circuit and the scan signal line drive circuit is provided in plurality, the part including a voltage select-supplying section for selecting and supplying voltages each of which is supplied during one horizontal period to each data signal line so as to realize mutually different display configurations.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

6. Prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

U. S. Patent No.	6,232,949	Imamura
U. S. Patent No.	6,181,317	Taguchi et al.
U. S. Patent No.	5,973,661	Kobayashi et al.
U. S. Patent No.	5,638,501	Gough et al.

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Responses


7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Vincent E. Kovalick whose telephone number is 703 306-3020. The examiner can normally be reached on Monday-Thursday 7:30- 4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bipin Shalwala can be reached on 703 305-4938. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Vincent E. Kovalick
May 11, 2005



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SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2800